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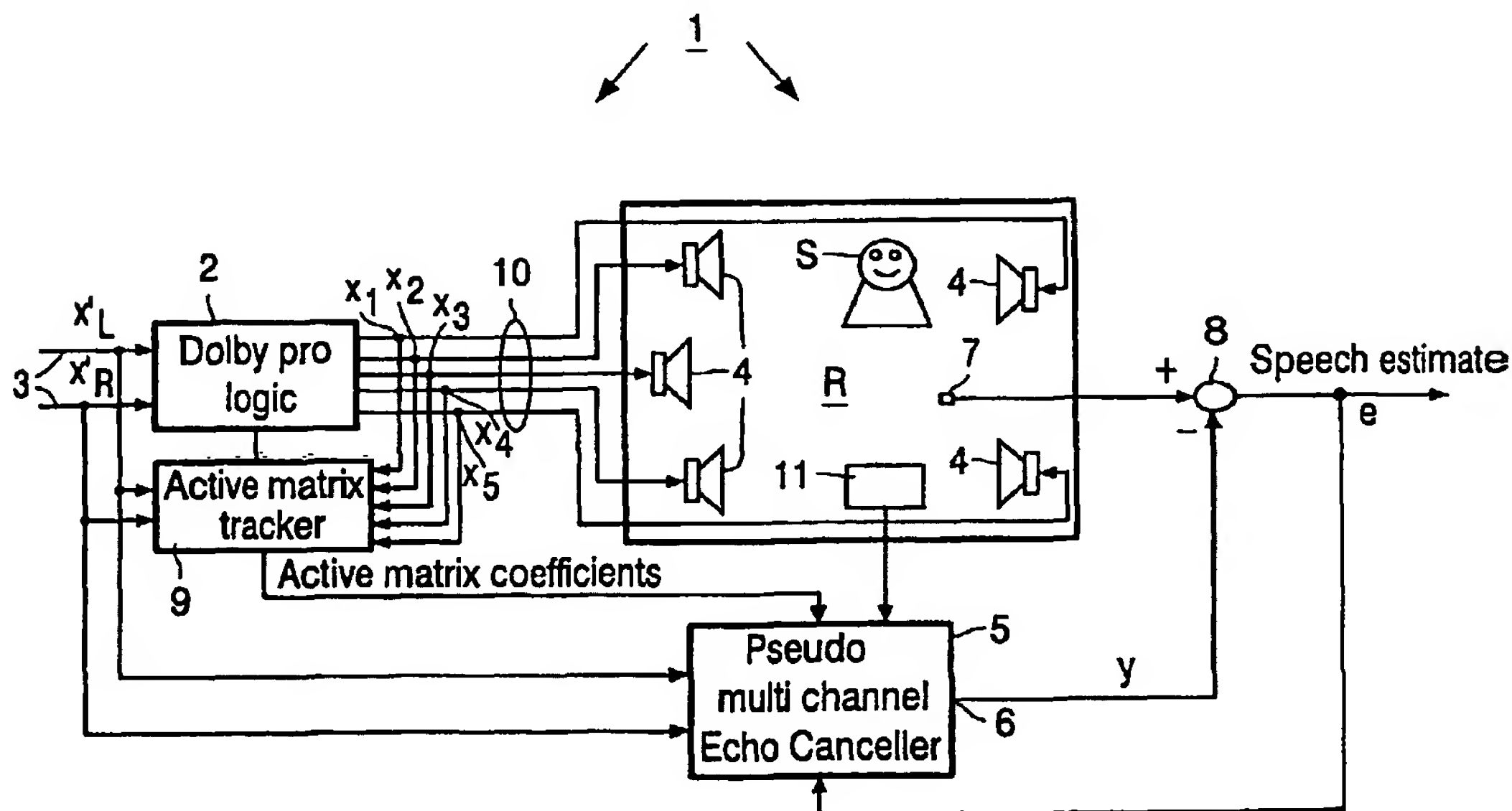
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- (71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **SCHOBEN, Daniel, W., E.** [NL/NL]; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **EGELMEERS, Gerardus, P., M.** [NL/NL]; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (74) Agent: **GROENENDAAL, Antonius, W., M.**; Internationaal Octrooibureau B.V., Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
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(54) Title: MULTICHANNEL ECHO CANCELLER SYSTEM USING ACTIVE AUDIO MATRIX COEFFICIENTS



(57) Abstract: An echo canceller system is described, which comprises an audio matrix decoder coupled to audio inputs for providing multiple audio output signals, and a multi-channel echo canceller coupled to the audio inputs. The echo canceller system further comprises audio receiving means for receiving a mixture of the audio output signals and a wanted signal. The multi-channel echo canceller is coupled to the audio matrix decoder for using the audio matrix coefficients with multi-channel echo cancellation for deriving the wanted signal from the mixture. The computational and audio processing complexity of such a system is reduced.

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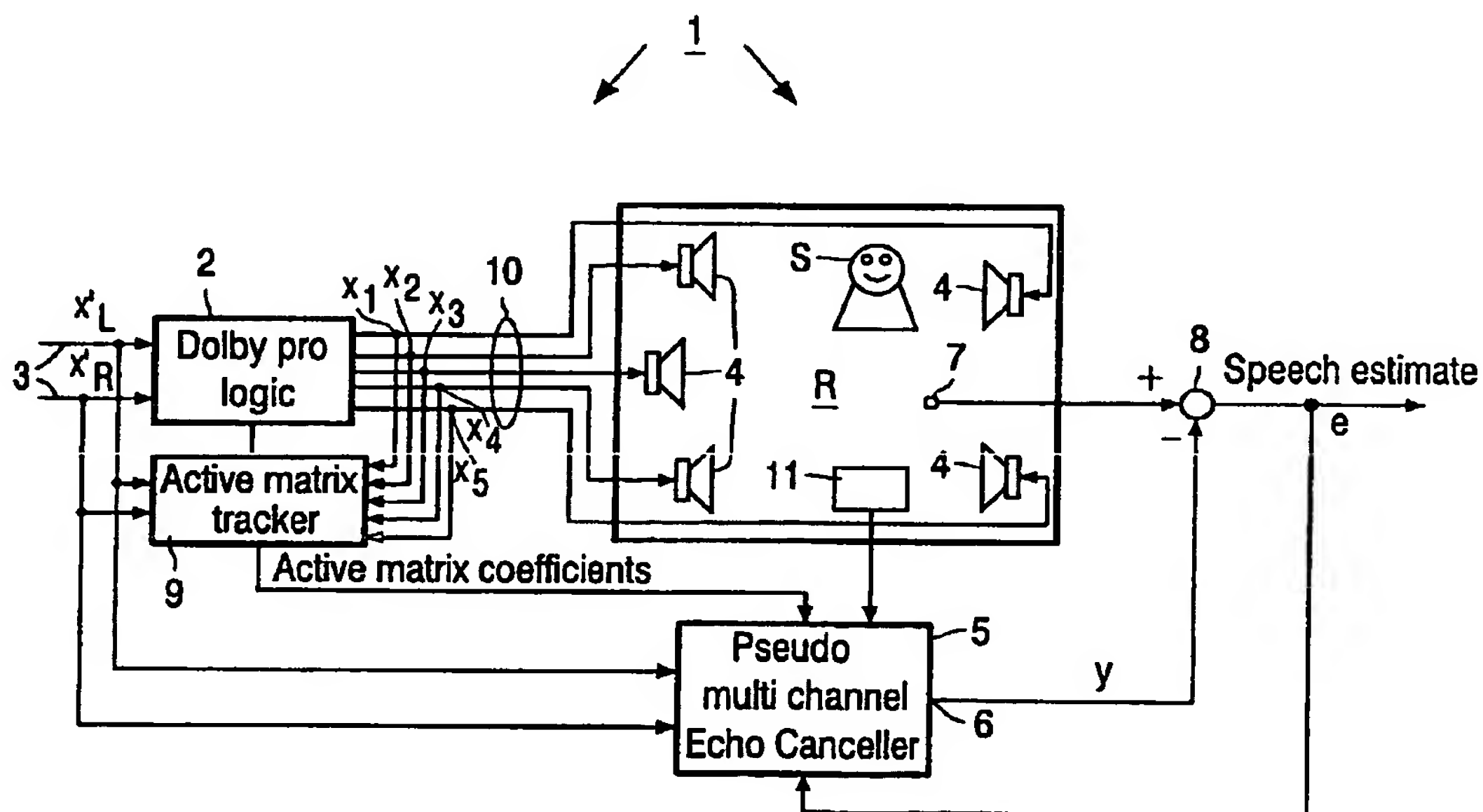
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*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

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According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04S.

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 761 318 A (SHIMAUCHI SUEHIRO ET AL) 2 June 1998 (1998-06-02) column 4, line 57 -column 6, line 36 column 21, line 61 -column 25, line 20; figures 7-10 -----	1,6-8

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Tsapelis, A .

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5761318	A	02-06-1998	CA 2186416 A1 27-03-1997
		DE 69628618 D1 17-07-2003	
		EP 0766446 A2 02-04-1997	
		JP 3402427 B2 06-05-2003	
		JP 9312597 A 02-12-1997	